



KAWAW19.001AUS

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Hidemichi Fujiwara

Appl. No. : 10/021,567

Filed : December 12, 2001

For : **POWER CABLE FOR  
MOBILE AND TERMINAL  
FOR THE POWER CABLE**

Examiner : Chau N. Nguyen

) Group Art Unit 2831

) I hereby certify that this correspondence and all  
) marked attachments are being deposited with  
) the United States Postal Service as first-class  
) mail in an envelope addressed to Assistant  
) Commissioner for Patents, Washington, D.C.  
) 20231, on

) (Date)  
)   
) Mark M. Abumant, Reg. No. 42,458

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DECLARATION OF HIDEMICHI FUJIWARA UNDER 37 CFR § 1.131

I, Hidemichi Fujiwara, declare and state as follows:

1. I am the sole inventor of the subject matter claimed in the above-captioned patent application.

2. During the time period in which all of the events and activities described herein occurred, I was employed by The Furukawa Electric Co., Ltd., the assignee of the above-captioned application.

3. I conceived and reduced to practice the inventions claimed in the above captioned patent application prior to August 21, 2001 in the U.S. or a WTO country, as described below:

4. Prior to August 21, 2001, I developed an automobile power cable comprising a stranded wire formed of a plurality of highly conductive Al alloy strands. Each of the Al alloy strands consisted essentially of: Zr in a 0.05 to 0.4 wt. %, Fe in a 0.05 to 0.2 wt. %, Si in a 0.05 to 0.2 wt. %, a total amount of one or at least two kinds selected from the group consisting of Be, Sr, Mg, Ti, and V in a 0.003 to 0.05 wt. %, and the balance being Al and inevitable impurities, as evidenced by the English translation of Japanese Patent Application No. 11-169411, filed June 16, 1999, Exhibit A; e.g., in reference to Sample No. 1 at page 14 and in Table 1 at page 16. The automobile power cable also comprised at least one insulation layer for covering the stranded wire, and at least one shield layer formed of a braid containing more than 99 wt. % of Al, as evidenced by the English translation of Japanese Patent Application No. 11-169411; e.g., *Id.* at

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page 17 in reference to Sample No. 5 of the invention, and in Table 2 at page 19 in reference to Sample No. 7.

5. The automobile power cable I developed had each of the Al alloy strands coated on its outer surface with a Ni layer. See, e.g., *Id.* at pp. 16-18; e.g., *Sample Nos. 2, 4, 6.*

6. The automobile power cable I developed had each of the insulation layer and the shield layer comprising a single layer, and the stranded wire covered with the insulation layer and the shield layer, in this order. See, e.g., *Id.* at pp. 19-21.

7. The automobile power cable I developed had the insulation layer comprising two layers of a first insulation layer and a second insulation layer while the shield layer comprising a single layer, and the stranded wire covered with the first insulation layer, the shield layer and the second insulation layer, in this order. *Id.*

8. The automobile power cable I developed had the insulation layer comprising three layers of a first insulation layer, a second insulation layer and a third insulation layer while the shield layer comprises two layers of a first shield layer and a second shield layer, and the stranded wire covered with the first insulation layer, the first shield layer, the second insulation layer, the second shield layer and the third insulation layer, in this order. *Id.*

9. The automobile power cable I developed had the insulation layer made of flame-resistant polyolefin resin. See, e.g., *Id.* at page 17.

10. I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 Title 18 of the United States Code and that such willful, false statements may jeopardize the validity of the application or document or any patent resulting therefrom.

Dated: November 15, 2002

By: Hidemichi Fujiwara  
Hidemichi Fujiwara